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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/737,052	12/16/2003	Hak-Yun Kim	29925/39869	4766
4743 7.	590 05/06/2005		EXAMINER	
MARSHALL, GERSTEIN & BORUN LLP			LE, THAO P	
SEARS TOWE	ER DRIVE, SUITE 6300 ER		ART UNIT PAPER NUMBER	
CHICAGO, IL 60606			2818	

DATE MAILED: 05/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/737,052	KIM, HAK-YUN	İ
Office Action Summary	Examiner	Art Unit	
	Thao P. Le	2818	<u></u> .
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address	;
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thirid will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communi. BANDONED (35 U.S.C. § 133).	ication.
Status			
1) Responsive to communication(s) filed on 10	6 December 2003.		
	his action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice under	·	•	its is
Disposition of Claims			
4) ☐ Claim(s) 1-15 is/are pending in the applicat 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-15 are subject to restriction and/	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10)☐ The drawing(s) filed on is/are: a)☐ a			
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor	·	- · · · · · · · · · · · · · · · · · · ·	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage	e
Attachment/e)			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 	/08) 5) \(\bigcap \text{ Notice of } \) 6) \(\bigcap \text{ Other: } \(\bigcap \text{ Other: } \)	Informal Patent Application (PTO-152)	

DETAILED ACTION

Election/Restrictions

Claims 1- 15 are pending in this application.

impurities, or patterning the layers etc...

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- Group I. Claims 1-8, drawn to a semiconductor device, classified in class 257.
- Group II. Claims 9-15, drawn to process of making a semiconductor device, classified in class 438, and subclass 257.
- 2. The inventions are distinct, each from the other because of the following reasons:

 Inventions II and I are related as process of making and product made. The
 inventions are distinct if either or both of following can be shown: (1) that the process as

claimed can be use to make other and materially different product or by hand, or (2) that process as claimed can be made by another and materially different process. (MPEP § 806.05(f)). In the instance case unpatentabilities of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by the processes materially different from those of the group II invention. Group II invention includes limitations that are not disclosed in group I invention, for example, group II invention including forming a trench, implanting

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3. If applications elect group I invention, applications are required to elect one of the following two species because group I invention contains claims directed to the two patentably distinct species of the claimed invention:

- a) Claims 1-3
- b) Claims 4-8
- 4. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the

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case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the fields of search are not co-extensive. Therefore, separate examination would be required and restriction for examination purposes as indicated is proper.
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao P. Le whose telephone number is 571-272-1785. The examiner can normally be reached on M-T (7-6).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao P. Le

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